

**BEFORE THE TENNESSEE REGULATORY AUTHORITY
NASHVILLE, TENNESSEE**

September 23, 1999

IN RE:)	
)	
CHATTANOOGA GAS COMPANY)	DOCKET NO.99-00513
WEATHER NORMALIZATION)	
ADJUSTMENT AUDIT)	
)	

ORDER ADOPTING WNA AUDIT REPORT OF AUTHORITY'S STAFF

This matter came before the Tennessee Regulatory Authority (the "Authority") at a regularly scheduled Authority Conference held on August 24, 1999, for the consideration of the audit findings of the Authority's Energy and Water Division (the "Staff") after review of Chattanooga Gas Company's ("CGC") Weather Normalization Adjustment (WNA) for the period November 1, 1998, through April 30, 1999. The WNA Audit Report, attached hereto as Exhibit A, contains the audit findings of the Staff, the responses thereto of CGC, and the recommendations of the Staff in addressing its findings. The difference between CGC's Weather Normalization Adjustment and the Staff's audit results is a net under-collection of \$17,389. CGC will collect this amount from its customers through the Actual Cost Adjustment filing.

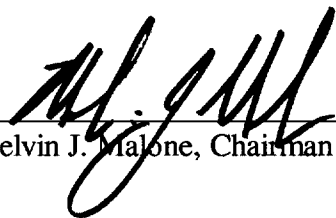
After consideration of the WNA Audit Report, the Authority unanimously approved the findings and recommendations contained therein.

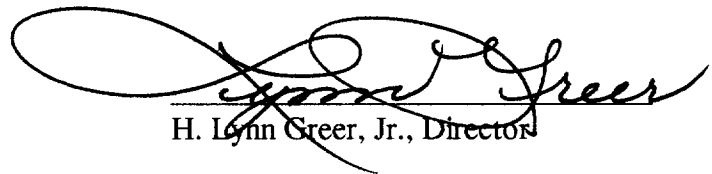
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IT IS THEREFORE ORDERED THAT:

1. The WNA Audit Report is approved, including the findings and recommendations contained therein.

2. Any party aggrieved by the Authority's decision in this matter may file a Petition for Reconsideration with the Authority within ten (10) days from the date of this Order.

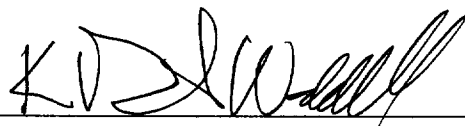


Melvin J. Malone, Chairman

H. Lynn Greer, Jr., Director

Sara Kyle, Director

ATTEST:



K. David Waddell, Executive Secretary

COMPLIANCE AUDIT REPORT

OF

CHATTANOOGA GAS COMPANY

WEATHER NORMALIZATION ADJUSTMENT (WNA) RIDER

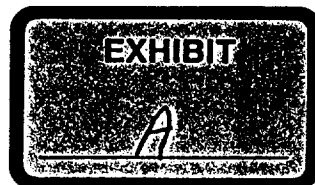
DOCKET NO. 99-00513

PREPARED BY

TENNESSEE REGULATORY AUTHORITY

ENERGY AND WATER DIVISION

AUGUST, 1999



COMPLIANCE AUDIT
CHATTANOOGA GAS COMPANY
WEATHER NORMALIZATION ADJUSTMENT (WNA) RIDER

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COMPLIANCE AUDIT
CHATTANOOGA GAS COMPANY
WEATHER NORMALIZATION ADJUSTMENT (WNA) RIDER

I. OBJECTIVE OF AUDIT

In its September 26, 1991 Order in Docket 91-01712, the Tennessee Regulatory Authority (TRA), formerly the Tennessee Public Service Commission, approved a three year experimental Weather Normalization Adjustment (WNA) Rider to be applied to residential and commercial customers' bills during the months of October through May of each year (See Attachment 1). In its June 21, 1994 order, the TRA adopted the WNA Rider as a permanent rule, to be applied November through April of each year for Chattanooga Gas Company. The purpose of this audit is to determine if the WNA rider was calculated and applied to customers' bills correctly between November 1, 1998 and April 30, 1999.

II. SCOPE OF AUDIT

In meeting the objective of the audit, the Staff compared the following on a daily basis: 1) the Company's actual heating degree days to National Oceanic and Atmospheric Administration (NOAA) actual heating degree days; 2) the Company's normal heating degree days to the normal heating degree days calculated in the last rate case; and 3) the Company's calculation of the WNA factor to Staff's calculation. The Staff also audited a sample of customers' bills during the WNA period to verify that the WNA factor had been correctly applied to the bills.

Pat Murphy of the Energy and Water Division conducted this audit.

III. BACKGROUND ON WEATHER NORMALIZATION ADJUSTMENT (WNA) RIDER

In setting rates, the Tennessee Regulatory Authority uses a normalized level of revenues and expenses for a test year, which is designed to be the most reasonable estimate of the Company's operations during the time the rates are to be in effect. Use of normalized operating levels eliminates unusual fluctuations that may occur during the test period, which causes rates to be set too high or too low.

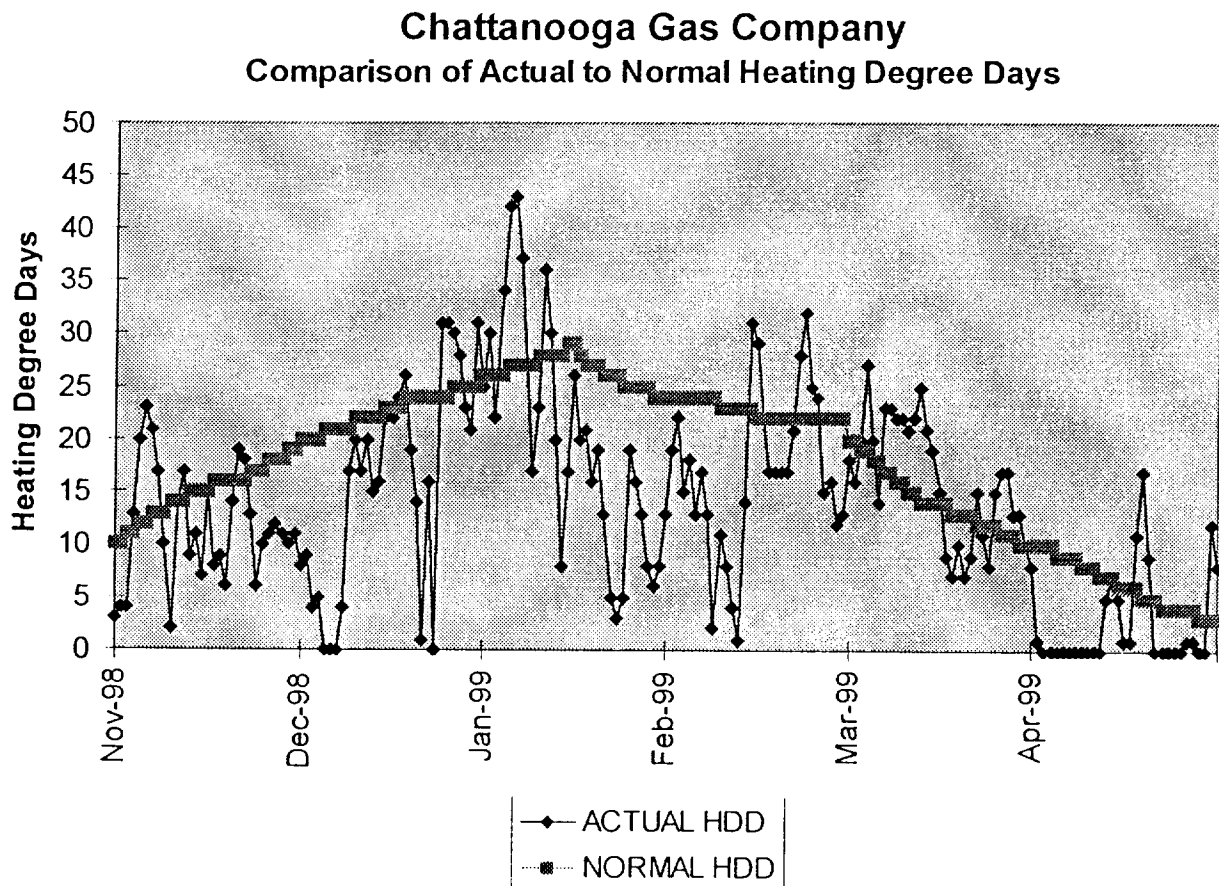
Specifically, one part of normalizing revenues consists of either increasing or decreasing the test year weather related sales volumes to reflect the difference between the normal and actual heating degree days. (A heating degree day is calculated as the difference in the average daily temperature and 65 degrees Fahrenheit.) This average daily temperature constitutes normal weather and is determined based on the previous thirty years weather data.

However, normal weather rarely occurs. This has two impacts:

- 1) The customers' bills fluctuate dramatically due to changes in weather from month to month; and
- 2) The gas companies earn more or less than their authorized rate of return. For example, if weather is colder than normal, then more gas than anticipated in the rate case will be sold. This results in higher customer bills and overearnings for the company. On the other hand, if weather is warmer than normal, less gas than anticipated in the rate case will be sold, the customers' bills will be lower and the company will underearn.

In recognition of this fact, the TRA approved an experimental WNA mechanism, which became permanent on June 21, 1994, to reduce the impact abnormal weather has on the customers' bills and on the gas utilities' operations. In periods of weather colder than normal, the customer receives a credit on his bill, while in periods of warmer than normal weather, the customer is billed a surcharge. Thus, customers' monthly bills should not fluctuate as dramatically and the gas company should have a more stable rate of return.

The following graph is a comparison of actual heating degree days to normal heating degree days for Chattanooga Gas during the 1998 - 1999 heating season.



IV. IMPACT OF WNA RIDER

The net impact of the WNA Rider during the November 1, 1998 through April 30, 1999 period was that residential and commercial customers were **surcharged** an additional \$1,348,285 and \$1,179,083 respectively. This equates to increases in revenues from residential and commercial sales of 6.94% and 6.45% respectively. (See Table 1) This is an increase from the previous year when the residential and commercial customers were **surcharged** \$189,761 and \$214,149 respectively (See Table 2).

Table 1

Impact of WNA Rider on Residential & Commercial Revenues November 1, 1998 - April 30, 1999

	<u>WNA Rider Revenues</u>	<u>Total Revenues</u>	<u>Percentage Impact of WNA Rider on Revenues</u>
Residential Sales	\$ 1,348,285	\$ 19,436,396	6.94%
Commercial Sales	<u>1,179,083</u>	<u>18,285,830</u>	6.45%
Total	<u>\$ 2,527,368</u>	<u>\$ 37,722,226</u>	6.70%

Table 2

Amount Surcharged (Refunded) 1996 - 1999

	<u>Residential</u>	<u>Commercial</u>	<u>Total Surcharge/Refund</u>
11/96-4/97	\$ 807,902	\$ 822,406	\$ 1,630,308
11/97-4/98	189,761	214,149	403,910
11/98-4/99	<u>1,348,285</u>	<u>1,179,083</u>	<u>2,527,368</u>
Total	<u>\$ 2,345,948</u>	<u>\$ 2,215,638</u>	<u>\$ 4,561,586</u>

V. BACKGROUND INFORMATION ON THE COMPANY

Chattanooga Gas Company (CGC), with its headquarters at 6125 Preservation Drive, Chattanooga, Tennessee, is a wholly owned subsidiary of Atlanta Gas & Light Company, which has its headquarters at 235 Peachtree Street, Atlanta, Georgia. CGC is a gas distributor, which provides service to the cities of Chattanooga and Cleveland and surrounding environs in Hamilton and Bradley counties, all located in Southeast Tennessee. The natural gas used to serve these areas is either purchased from or transported by East Tennessee Natural Gas and Southern Natural Gas. The purchases are made in accordance with separate and individual tariffs approved by the Federal Energy Regulatory Commission, while the transportation is for gas purchased on the spot market.

VI. WNA FINDINGS

The Staff's audit results showed an **underrecovery** from CGC's ratepayers in the amount of **\$17,389**. This underrecovery resulted from the first finding, which is detailed below.

FINDING #1:

Exception

The Company used inaccurate actual daily heating degree days in the calculation of the WNA factor.

Discussion

The audit indicates that on eight (8) days out of 212 days of weather observations in the WNA period, the Company used inaccurate actual daily heating degree days in the calculation of the WNA factor

A summary of the days involved follows:

Date	Daily Degree Days Used By Company	Daily Degree Days As Published by NOAA	Degree Day Difference
10/13/98	1	0	-1
12/21/98	1	5	4
12/23/98	0	32	32
01/22/99	3	0	-3
02/17/99	17	13	-4
04/16/99	1	11	10
04/17/99	11	17	6
04/18/99	17	18	1

The Company has stated that the above inaccuracies resulted from Company employees improperly recording the weather data received from NOAA. Staff notes that the degree days recorded for October 13, December 23, and January 22 represent the cooling degree days on the NOAA report. Also, the degree days recorded for April 17 and April 18 represent a line shift in entering the data. The April errors had the potential of affecting customer Bill Groups 12 through 21 and the end of month (EOM) billing. However, by examining a sample of customer bills, the Staff determined that the error was caught and corrected prior to billing and the error affected only the end of month (EOM) customers.

The net result of the Company's use of this inaccurate information is that the customers were **undercharged \$17,389**.

Company Response

We concur. After reviewing this issue with all parties, it is believed that Company personnel improperly recorded the data provided by NOAA. The Company is in the process of developing corrective procedures regarding this issue.

FINDING #2:

Exception

The Company has not surcharged the \$102,283 under-recovery found in the Staff's audit of the November 1997 to April 1998 heating season. Also, the Company has not refunded the \$6,268 over-recovery for the 1996 – 1997 heating season as reported in Finding #2 of the last audit report.

Discussion

During the audit of the Weather Normalization Adjustment, the Staff checks to see that the Company has begun refunding or surcharging the customers based upon the findings from the previous audit. In the last audit, the Company responded to the findings that the \$102,283 under-recovery would be collected from customers through the Actual Cost Adjustment (ACA) filing and the \$6,268 over-recovery would "remain in the Purchased Gas Refunds Due Customers Account until the refund is submitted with a PGA filing". At the time of the completion of this audit, the Company had not made the above adjustments.

Company Response

We concur. The under-recovery of \$102,283 from the '97-'98 heating season and the over-recovery of \$6,268 from the '96-'97 heating season will be included on the upcoming ACA audit schedule to be filed with the TRA in August 1999.

VII. RECOMMENDATIONS AND CONCLUSIONS

The Staff concludes that, except for the above findings, the Company is correctly implementing the mechanics of the WNA Rider as specified by the TRA and included in the Company's tariff. (See Attachment 1) The \$17,389 under-collection is immaterial (approximately \$0.30 per customer). Therefore, we have recommended that the Company collect this amount from its customers through the Actual Cost Adjustment (ACA) filing. The Company has agreed to do this.

CHATTANOOGA GAS COMPANY
GAS TARIFF
TPSC NO. 1

ORIGINAL SHEET NO. 49

WEATHER NORMALIZATION ADJUSTMENT

(WNA) RIDERPROVISION FOR ADJUSTMENT

The base rate per CCF/therm (100,000 Btu) for gas service set forth in any rate schedules utilized by the Commission in determining normalized test period revenues shall be adjusted by an amount hereinafter described, which amount is referred to as the "Weather Normalization Adjustment."

DEFINITIONS

For Purpose of this Rider:

"Commission" means the Tennessee Public Service Commission.

"Relevant Rate Order" means the final order of the Commission in the most recent litigated rate case of the Company fixing the rates of the Company or the most recent final order of the Commission Specifically prescribing or fixing the factors and procedures to be used in the application of this Rider.

COMPUTATION OF WEATHER NORMALIZATION ADJUSTMENT

The Weather Normalization Adjustment shall be computed to the nearest one-hundredth cent per CCF/therm by the following formula:

$$WNA_i = R_i \frac{(HSF_i(NDD - ADD))}{(BL_i + (HSF_i \times ADD))}$$

Where

- i = any particular Rate Schedule or billing classification within any such particular Rate Schedule that contains more than one billing classification
- WNA_i = Weather Normalization Adjustment Factor for the i^{th} Rate Schedule or classification expressed in cents per CCF/therm
- R_i = weighted average base rate (base rate less any embedded gas cost) of temperature sensitive sales for the i^{th} schedule or classification utilized by the Commission in the Relevant Rate Order for the purpose of determining normalized test year revenues
- HSF_i = heat sensitive factor for the i^{th} schedule or classification utilized by the Commission in the Relevant Rate Order for the purpose of determining normalized test year revenues
- NDD = normal billing cycle heating degree days utilized by the Commission in the Relevant Rate Order for the purpose of determining normalized test year revenues
- ADD = actual billing cycle heating degree days
- BL_i = base load sales for the i^{th} schedule or classification utilized by the Commission in the Relevant Rate Order for the purpose of determining normalized test year revenues

FILING WITH COMMISSION

The Company will file as directed by the Commission (a) a copy of each computation of the Weather Normalization Adjustment, (b) a schedule showing the effective date of each such Weather Normalization Adjustment, and (c) a schedule showing the factors or values derived from the Relevant Rate Order used in calculating such Weather Normalization Adjustment.

CHATTANOOGA GAS COMPANY
GAS TARIFF
TPSC NO. 1

THIRD REVISED SHEET NO. 49A

WEATHER NORMALIZATION ADJUSTMENT
(WNA) RIDER COMPONENTS

<u>RATE SCHEDULE</u>	<u>WEIGHTED BASE RATE (\$CCF)</u>	<u>HEAT SENSITIVE FACTOR--HSF (CCF)</u>	<u>BASE LOAD - BL (CCF)</u>
<u>(R-1) RESIDENTIAL GENERAL SERVICE</u>			
Winter (November - April)	.203346	.208678	17.224
<u>(R-4) MULTI-FAMILY HOUSING SERVICE</u>			
Winter (November - April)	.208600	.119141	25.044
<u>(C-1) COMMERCIAL AND INDUSTRIAL GENERAL SERVICE</u>			
Winter (November - April)	.257377	.987685	221.606

ISSUED ON: October 9, 1995

EFFECTIVE: November 1, 1995